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Field Service Procedure

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Installation of Saturn Power Supply and CPU on Narkomed 2C, 3 and 4

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Installation of Saturn Power Supply and CPU on Narkomed 2C, 3 and 4

Installation Procedure

The following procedure outlines installation of a Saturn power supply and CPU on NM2C, NM3 and NM4 machines, and replacement of the lower cabinet drawer with a new drawer assembly that accommodates the size and shape of the installed Saturn power supply.

Power supply installation:

1. Turn the System Power switch to STANDBY, and remove AC power from the machine.

2. Pull out the bottom cabinet drawer and remove it from the cabinet rails. See Figure 1.

3. Pull out the middle cabinet drawer and remove it from the cabinet rails.

4. Remove and discard the top cover from the Narkomed power supply/battery box (located between the bottom frame rails).

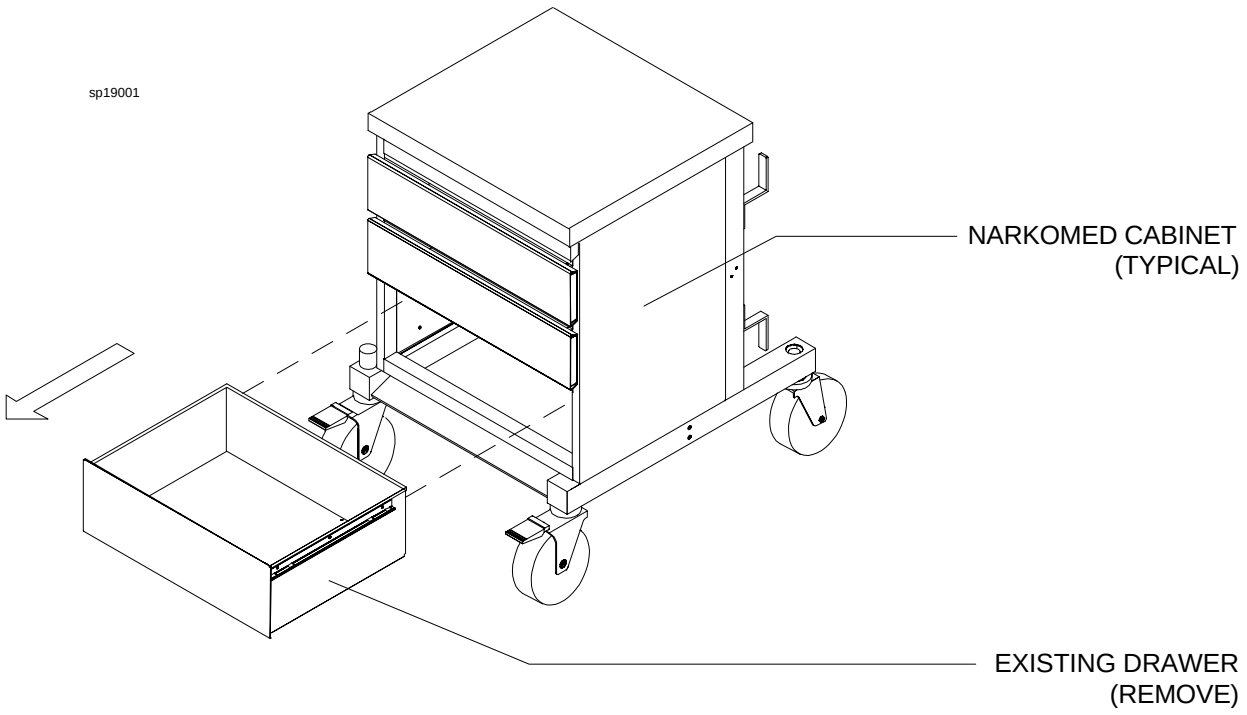

FIGURE 1. Cabinet Drawer Removal

Installation Procedure (continued)

5. Remove the cover from the Saturn power supply. It is secured with four screws and lock washers as shown in Figure 2.

6. Install the Saturn power supply atop the existing Narkomed power supply as shown in Figure 2:

   Position the Saturn power supply so that its captive mounting screws engage the tapped holes in the Narkomed power supply box. The location of these holes will depend upon the type of machine. The Saturn power supply is designed to accommodate all three machines. For Narkomed 3 installations, install bracket spacers between the Saturn power supply and the Narkomed power supply. See Figure 2.

   Tighten the captive mounting screws.

   Cord routing:

   - For Narkomed 3 installations: Route the cords as shown in Figure 3 - out the side of the Saturn power supply and back, with tie straps installed where shown.

   - For Narkomed 2C and 4 installations: route the cords through the bottom hole in the Saturn power supply as shown in Figure 4.

   The cords will be connected at the end of this procedure.

7. Reinstall the Saturn power supply cover and secure it with the four screws and lock washers that were previously removed.

Installation Procedure (continued)

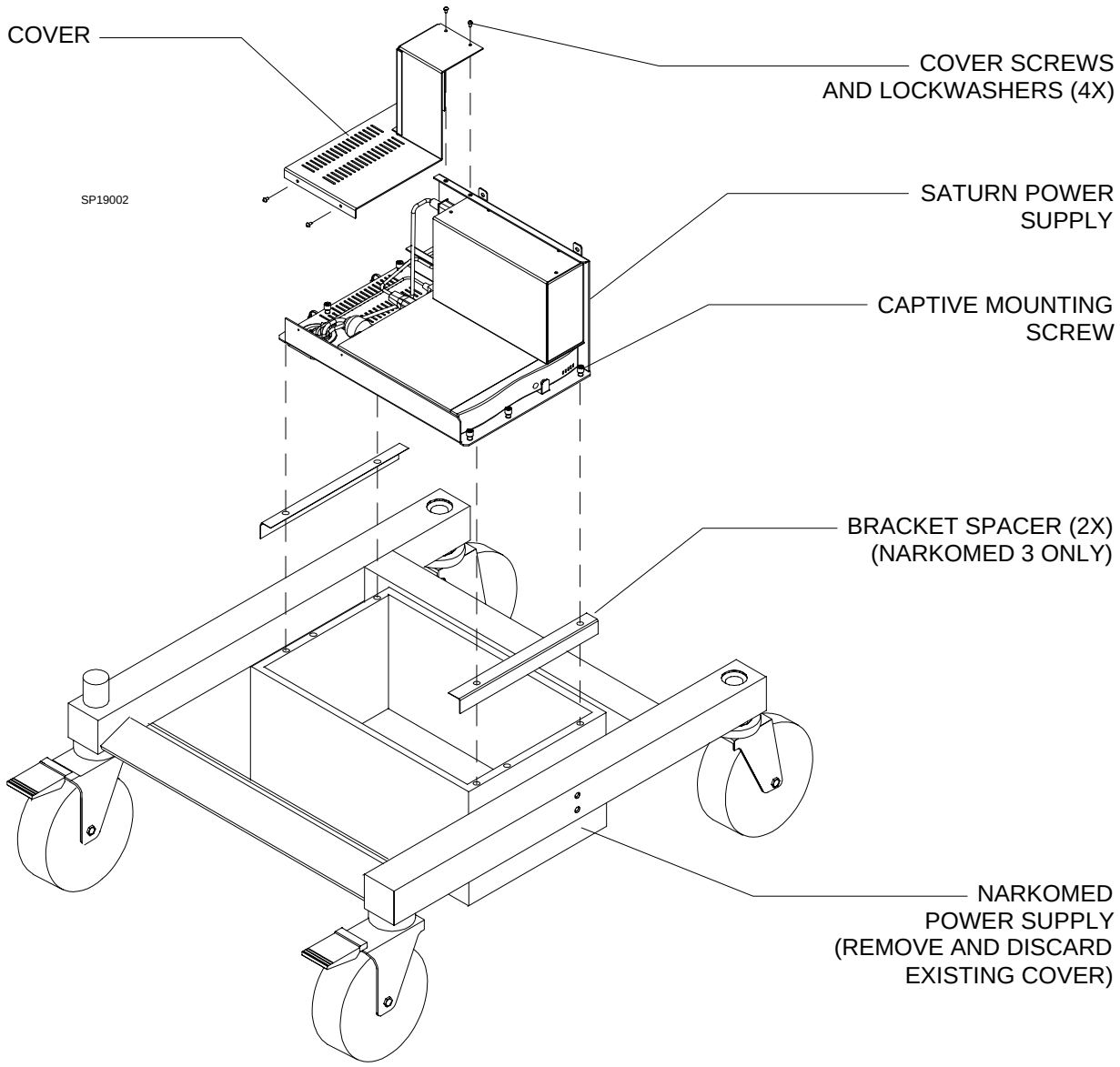

FIGURE 2. Saturn Power Supply Installation (for clarity - the cabinet is not shown)

Installation Procedure (continued)

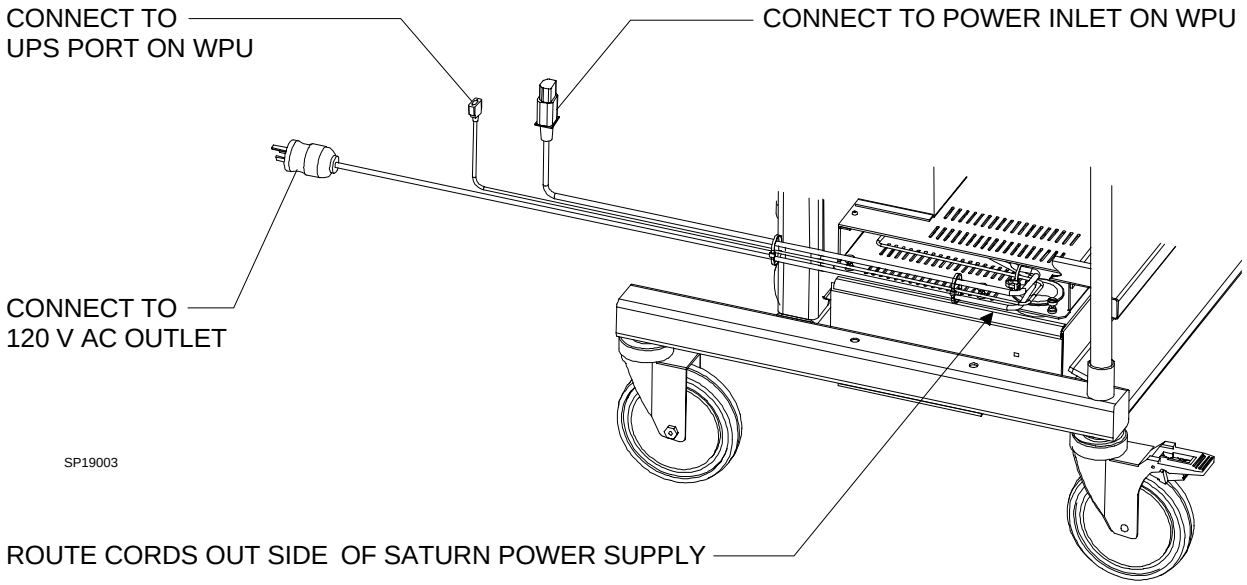

FIGURE 3. Narkomed 3 Cord Routing

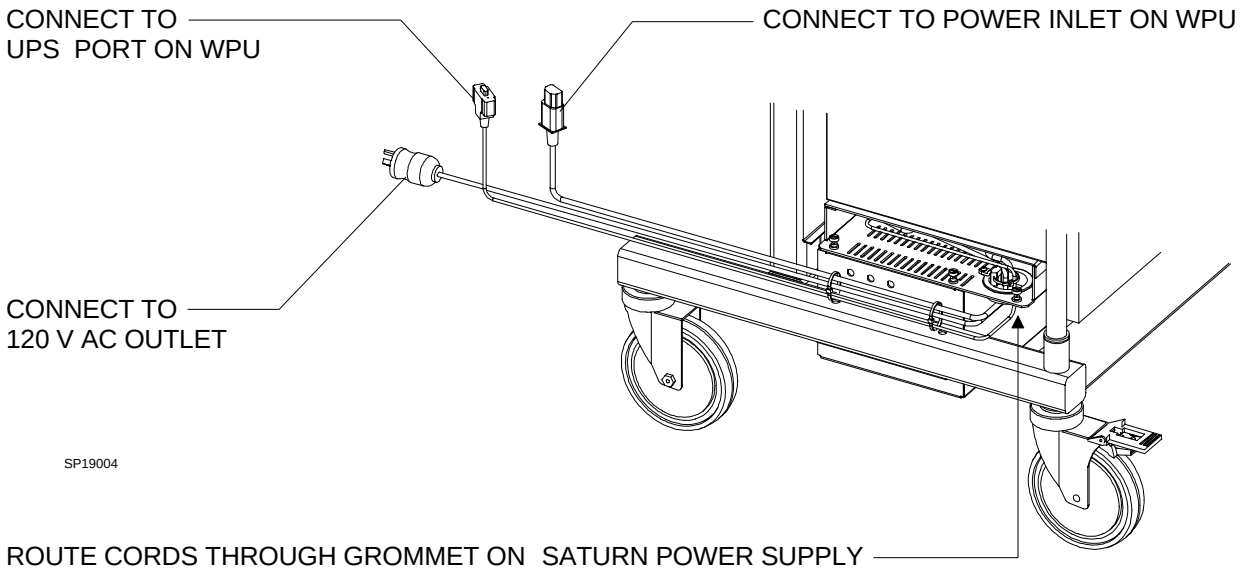

FIGURE 4. Narkomed 2C and 4 Cord Routing

Installation Procedure (continued)

CPU installation:

8. Install the slide plate on the CPU with the hardware arrangement shown in Figure 5.

9. Remove the scavenger from the machine and re-locate it using the extension bracket and support bracket as shown in Figure 5. Re-use the existing hardware to attach the scavenger to the extension bracket.

10. Determine whether your machine has a short cabinet or a tall cabinet. This will establish the drilling locations for attaching the rail plate to the cabinet. See Figure 6.

    Measure and mark the location of one of the lower holes; then use the rail plate as a template (make sure it's level) to mark the remaining three holes.

    Verify that the hole locations are correct for your cabinet - in accordance with the dimensions given in Figure 6.

11. Drill a 3/8 in. diameter hole at each of the four locations. Vacuum all drilling chips from the machine and surrounding area.

12. Assemble the rail plate to the cabinet, with the plate adapters inside the cabinet using the hardware and arrangement shown in Figure 5.

13. Install the CPU on the machine. The slide plate on the CPU should seat properly in the rail plate on the cabinet.

Installation Procedure (continued)

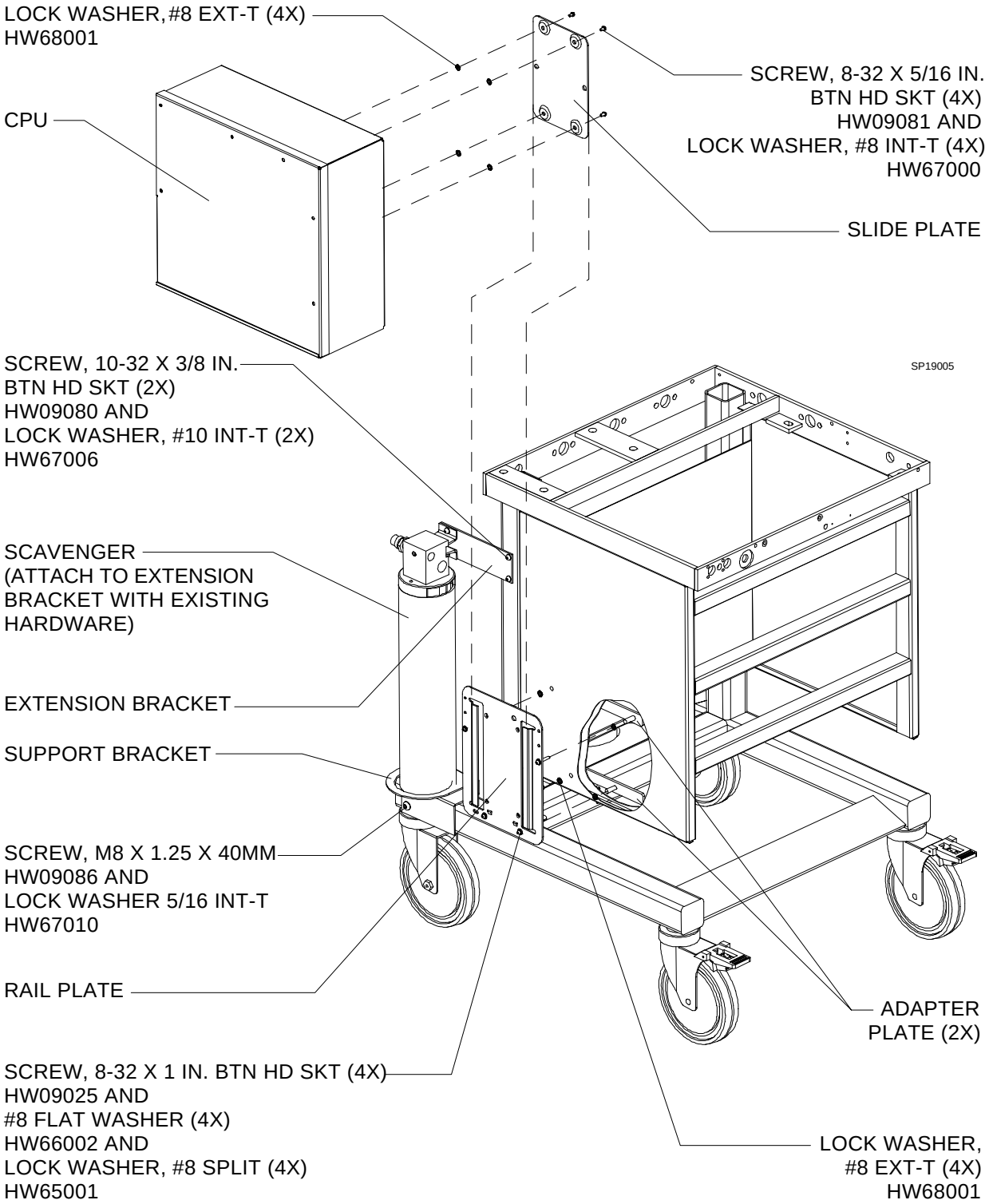

FIGURE 5. CPU, Scavenger Bracket and Rail Plate Installation

Installation Procedure (continued)

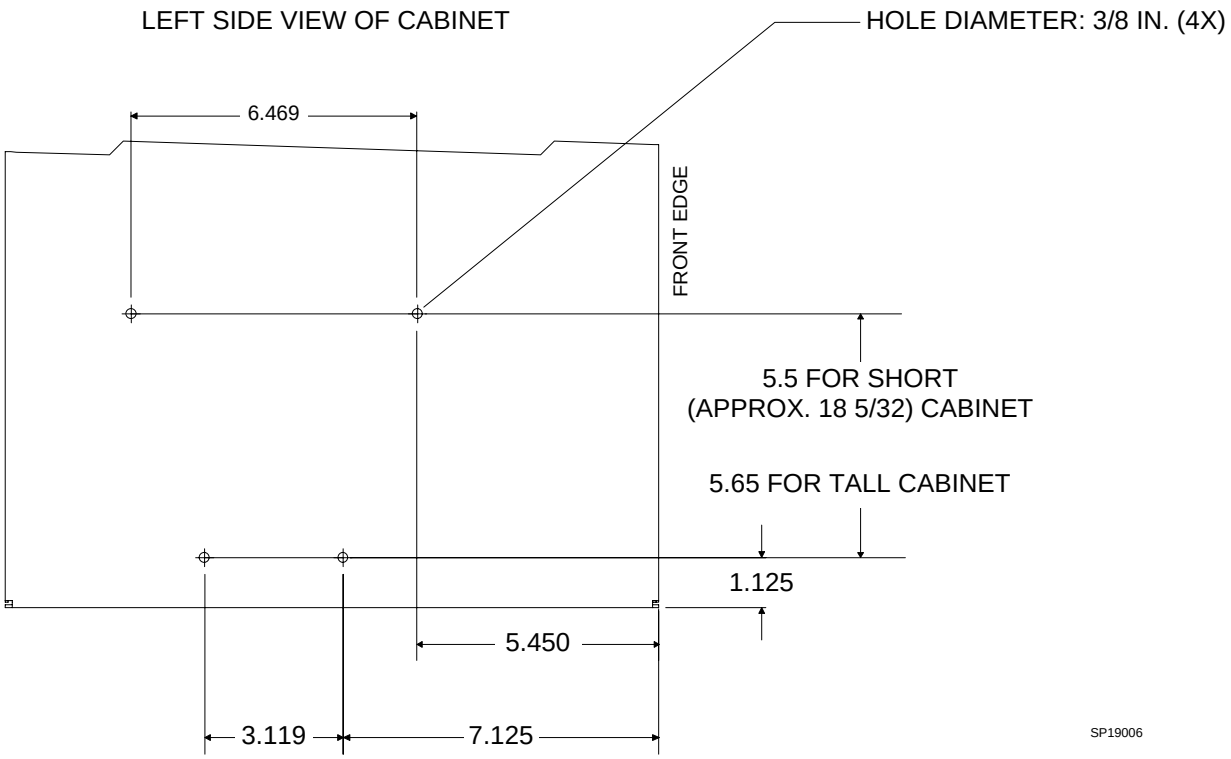

FIGURE 6. Rail Plate Drilling Locations

Installation Procedure (continued)

Drawer installation:

14. Assemble the slide rails (furnished with the new drawer) to the replacement drawer. Two slide rail arrangements are shown in Figure 7:

    - If your cabinet has a double-slide system, assemble the slide rails as shown in View **A** with three 6-32 x 5/16 in. btn hd skt screws and #6 int-t lock washers through each rail. In this assembly the left and right rails are the same.

    - If your cabinet has a single-slide system, assemble the slide rails as shown in View **B** with two 6-32 x 5/16 in. btn hd skt screws and #6 int-t lock washers through each rail. In this assembly the left and right rails are different:

      Install Accuride 7155-1214-CR on the right side of the drawer.

      Install Accuride 7155-1214-LR on the left side of the drawer.

15. Install the replacement drawer in the bottom position in the cabinet and ensure that it works properly.

16. Reinstall the middle drawer in the cabinet.

Connections:

17. Make the following connections from the Saturn power supply:

    - Connect the WPU power cord to the power inlet on the Saturn WPU.

    - Connect the data cord to the UPS port on the WPU.

    - Connect the power cord to a hospital grade 120 V AC outlet. DO NOT use the convenience outlet on the anesthesia machine to power the Saturn.

Installation Procedure (continued)

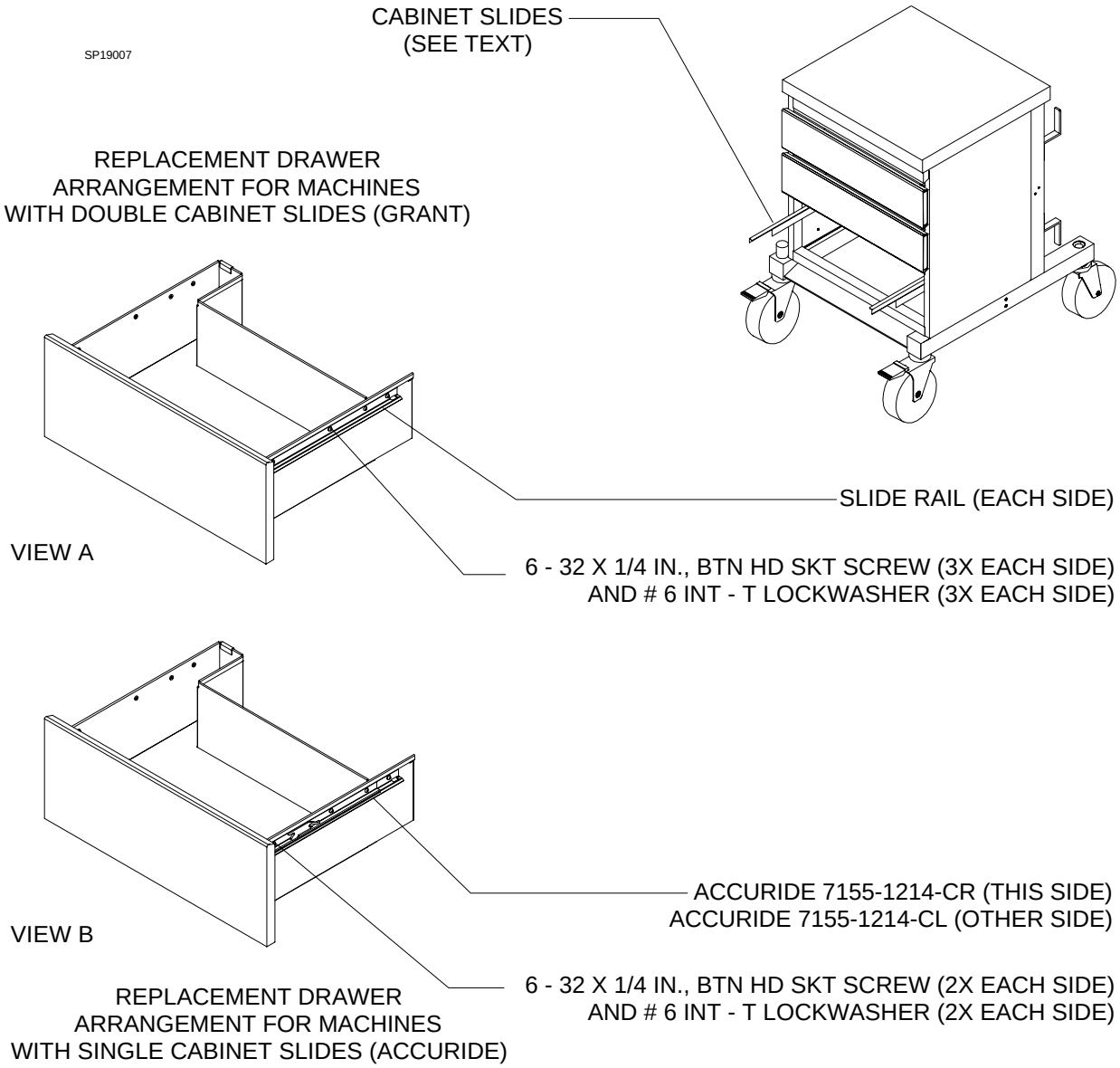
SP19007
CABINET SLIDES
(SEE TEXT)
REPLACEMENT DRAWER
ARRANGEMENT FOR MACHINES
WITH DOUBLE CABINET SLIDES (GRANT)
SLIDE RAIL (EACH SIDE)
VIEW A
6 - 32 X 1/4 IN., BTN HD SKT SCREW (3X EACH SIDE)
AND # 6 INT - T LOCKWASHER (3X EACH SIDE)
ACCURIDE 7155-1214-CR (THIS SIDE)
ACCURIDE 7155-1214-CL (OTHER SIDE)
VIEW B
6 - 32 X 1/4 IN., BTN HD SKT SCREW (2X EACH SIDE)
AND # 6 INT - T LOCKWASHER (2X EACH SIDE)
REPLACEMENT DRAWER
ARRANGEMENT FOR MACHINES
WITH SINGLE CABINET SLIDES (ACCURIDE)

FIGURE 7. Replacement Drawer Installation

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